The Honorable Carol Moseley-Braun U.S. Senate Washington, D.C. 20510

February 17, 1993

Dear Senator Moseley-Braun,

I have been involved in the building of Radio Controlled Model Aircraft for the past 12 years. I derive many hours of relaxation and fellowship from involvement in this hobby. Many prominent individuals in the aerospace and aviation industry nurtured their interest in this field as children, by building and operating Radio Controlled Aircraft.

I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission. The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and increase the attendant liability for controlling model airplanes.

Our radio control frequencies are in the 72 - 76 MHz band. This band is primarily used for private land mobile dispatch operations. However our radio control frequencies in this band are far enough apart from the land mobiel frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and cause interference to radio control operations. I am told that of the 50 frequencies that are presently available for radio control of model airplanes, only 19

Please help me continue the safe enjoyment of my pastime by not allowing he fcc to carry out its proposal PR Docket 92-235 for the 72 - 76 MHz band. We all need your help urgently because the FCC has a deadline of February 26, 1993 after which it may become more difficult to avoid halting these proposals from going into effect.

Sincerely,

Michael D. Kostecki 816 Provincetown Drive

Carol Stream, Illinois 60188

The Honorable Carol Mosely Brown 708 Hart Senate Building Washington, D.C. 20510 Dear Senator Brown: Robert Brooks 600 Industrial Drive Lincolnshire, IL 60069 February 8, 1993.

I am very interested in aviation, and I am an active member in a local club who enjoy constructing and operating radio-controlled airplanes.

Now I am greatly concerned about proposed rules, currently under consideration, by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies now assigned for model use, and increase the risk of accidents and attendant liability for controlling model airplanes.

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James C. Paulus 17W091 White Pine Rd.. Bensenville, IL 60126

March 14, 1993

Senator Carol Mosely Braun United States Senate Washington, D.C. 20510

Dear Senator Braun:

I have enjoyed constructing and flying radio controlled models for many years. I have always been interested in flying, and was an Aviation Cadet (Class of 42B) in World War II.

New rules being proposed by the Federal Communications Commission (PR Docket 92-235) would, if adopted, reduce or eliminate the usability of the frequencies currently assigned for model use in the 72-76 MHZ Band.

We modelers go to great lengths to operate safely. This involves careful coordination in using our radio frequencies, which would be made difficult or impossible by the FCC proposal.

Please allow me (and several hundred thousand other modelers) to continue flying safely by not permitting the FCC to carry out its proposal (PR Docket 92-235) for the 72-76 MHZ Band.

Sincerely,

James C. Paulus

The Honorable Carol Modey-Braun 708 Hort Senate Office Building Washington D.C. 20510

Dear Ms Mosley-Braun,

I belong to the Academy of Model Aeronautics (AMA) Chartered radio controlled model airplane club #755. Our 71 member club enjoys constructing and operating radio controlled models.

We seek your assistance in preventing the implementation of the Federal

2-14.93

Dear Senator Caral Mosley Braun

Dam concerned with the grapes of changes the (FCC) educal Communication Commission who we show that we are going to make in the lead. Being that we are going to be overwholmed build collabor that are and to show that are graphed after that are designed will affect the modeline and the change that

The Honorable Carol Moseley-Braun United States Senate Washington, D.C. 20510

Dear Senator Moseley-Braun,

I am an active member of a local club whose members enjoy building and flying radio controlled model airplanes. Our club participates in a number of community events including those organized by the Boy Scouts. Aside from being enjoyable, we believe RC modelling is educational, helps develop creativity, builds self-confidence, and builds skills which can be used in other endeavors.

I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

Our radio control frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and cause interference to radio control operations. I am told that of the 50 frequencies that are presently available for radio control of model airplanes, only 19 frequencies will be left if these new rules are adopted.

When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that many model airplanes have wing spans up to 10 feet and weigh as much as 30 or 40 pounds, others can reach speeds in excess of 200 miles per hour. The models themselves are expensive to build; but more to the point, they are capable of causing property damage, serious injury, or even death if radio interference causes the operator to lose control of the craft. We often fly our models at organized events and contests where hundreds of operators participate. We need the use of our full complement of radio frequencies in order to assure a safe flying environment.

I do not think it is wise of the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers. The FCC may not think we are as important as business users of radios, but we have considerable investment in our models and in our radio equipment. The hobby provides many hours of enjoyment to thousands of people like myself and contributes to the advancement and development of the commercial aviation industry.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely,

BMA 69866

February 13, 1993

The Honorable Senator Carol Mosley-Braun United States Senate

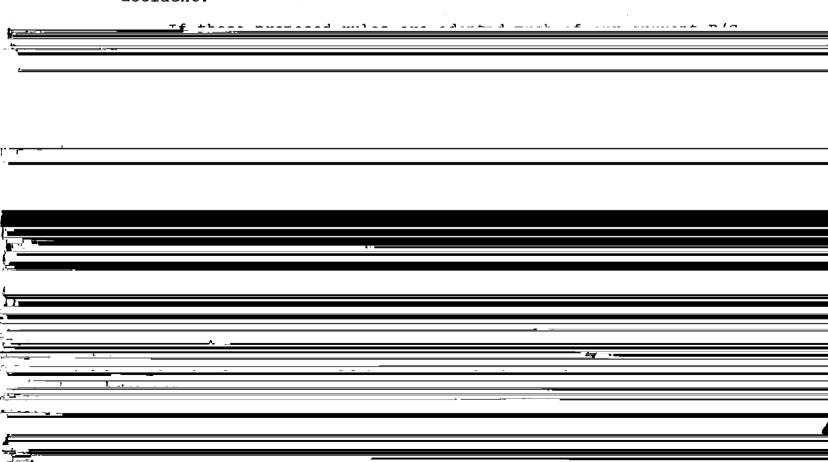
Washington D.C. 20510

Dear Senator Braun

I am very concerned about the proposed rules currently under consideration by the Federal Communications Commission, PR Docket 92-235, which if adopted will greatly reduce the usability of frequencies currently assigned for model use.

This decrease in usability of these frequencies would result in an increase in the risk of accidents and liability for controlling model aircraft.

We go to great lengths to operate our model aircraft safely. Many of the precautions taken include careful coordination of frequencies to prevent interference which would result in an accident.



### Com/FCC. Comment

The honorable Carol Mosley Braun:

Dean Senaton:

Jan. 28, 1993

I am very concerned about the rules that are currently under consideration by the FCC. If adopted, the mew rules would greatly reduce the usability of Frequencies currently assigned for radio controlled airplane use and increase the risk of accidents and liability. I am referring to the proceeding PR Docket 92-235.

Our radio frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to createmore land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result many land mobile frequencies will move

The Honorable Carol Moseley-Braun U. S. Senate Washington, D.C. 20510

Dear Senator,

I have been interested in model aviation since I was a boy some forty years ago. I build and fly RC model airplanes. I am very active in a local RC club along with a hundred and forty or so other members. The club is very active with the local park districts and provides many public demonstrations and events for the community. Many of our club members participate on a national level in this sport. In fact, two members of our club own a nationally known manufacturer and supplier of RC equipment.

I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission. The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

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When we fly our model airplanes under radio control, we go to extraordinary lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly reduced.

Please understand that many model airplanes have wing spans up to 10 feet and weigh as much as 30 or 40 pounds. The models themselves are expensive to build; but more importantly, they are capable of causing property damage, serious injury, or even

death if radio interference causes the operator to lose control of the craft. We often fly models at organized events and contests where hundreds of people are present. We need the use of our full complement of radio frequencies in order to assure a safe flying environment.

I do not think is reasonable for the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control Modelers. The FCC may not think we are as important as business users of radios, but we have a considerable investment in our models and in our radio equipment. This hobby provides many hours of enjoyment to thousands of people like myself and contributes to the advancement and development of the aviation industry.

Please help me continue the safe enjoyment of my hobby by not allowing the FCC to carry out its proposals for the 72 - 76 MHz band.

Sincerely

Anthony W. Lego Jr

1208 Larkspur Lane Batavia, Illinois 60510

Re: Federal Communications Commission PR Docket 92-235

Dear Senator Brown

The abovementioned docket number refers to a radio frequency re-distribution proposal currently under consideration by the FCC. If adopted, the proposal would seriously compromise the viability of frequencies presently assigned for the avocational radio control of model aircraft.

As it stands, the proposal would add commercial-usage frequencies in a manner which would cause control impairment of models in flight and during ground operations. This, in turn, would result in an in an intolerable hazard to individuals and property at or near established, locally-approved sites where radio-controlled models are flown.

(Please refer to the attached enclosure for facts regarding the nature of the models and their operation along with a reference to a national aeromodelers' organization, the Academy of Model Aeronautics, of Reston, VA.)

As a beneficiary and frequent user of the present FCC frequency accommodation for aeromodeling, I assure you that the proposal will—if left unmodified—virtually eliminate a worthy and gratifying avocational activity; an activity enjoyed by a demographically diverse participant-group of enthusiasts who frequently invest a major portion of their available leisure time and financial resources to radio-controlled aeromodeling.

Please consider interceding on our behalf by urging the FCC to heed these concerns as they'll be articulated in a Formal Letter of Comment to be presented by the Academy of Model Aeronautics via their counsel. The identification of the proposal, once more, is PR Docket 92-235 and the deadline for Comment is 26 FEB 93.

In doing so, you'll be helping preserve one of the very few, very small segments of the public airwaves still available for non-commercial use by the American public.

William J. Rich

Sincerely,

c., encl: FCC

#### FACTS REGARDING RADIO-CONTROLLED MODEL AVIATION

#### 20 JAN 93

- The miniature aircraft affected by the FCC frequency proposal (PR Docket 92-235) should not be confused with radio-controlled toys commonly available at mass marketing outlets.
- 2. The average model weighs between 5 and 12 pounds, spans 5 to 7 feet and flies at speeds between 70 and 100 mph. Other, more specialized and elaborate models may reach speeds of up to 200 mph and may weigh as much as 55 pounds. Larger models exist, but are flown only when rigid pre-flight procedures have been met.
- 3. In addition to many non-representational "sport" designs, radio-controlled models replicate the complete range of full-scale aircraft, including multi-engine, commercial, aerobatic, vintage military and civilian types plus helicopters, jets and sailplanes. The majority of the models are built from kits, but many are designed and constructed "from scratch" by craftsman-operators.
- 4. A minimum outlay of about \$500 is necessary to "get a start" in the sport. Participants' investments average \$3,000-\$5,000, and individual commitments in excess of \$10,000 are commonplace.
- 5. Apart from the financial outlay required, the cultivation of considerable skill and discipline is necessary to ensure successful, safe operation of radio-controlled model aircraft.
- 6. Hundreds of user-maintained flying sites have been established on public and private lands. Clubs—usually numbering 50-300 members—are typically responsible for site management and operational safety. Safety is foremost among the concerns of users as well as site providers, many of which are park system administrations.
- 7. Estimates of participation are unreliable, but conservative numbers suggest that there are between 300,000 and 400,000 devotees to the sport.
- 8. Roughly 160,000 of the most active enthusiasts are members of the Academy of Model Aeronautics, a Reston, VA-based organization concerned with flying safety, competition conduct and guidance, liability underwriting, FCC liaison and other matters affecting the avocation and its participants.

#### **SUMMARY:**

If adopted, the FCC proposal (as outlined in PR Docket 92-235), would insert additional frequencies in a manner which ignores their activation's potential to interfere with the radio link between radio-controlled models and their operators' transmitters.

In addition to losses which would be sustained by the operators of affected models, it should be apparent that even "average" models can represent a significant hazard to any and all individuals and property at or near flying sites if their control integrity is compromised.

For these and other reasons, the structure of the proposal reveals a profound lack of technical acumen and/or concern for the public interest on the part of its originators, and the necessity to marshall and commit resources for opposition to such a proposal constitutes an unjustifiable imposition on present users of the subject frequency band.

The Honorable Carol Braun United States Senate Washington, DC 20510

30 January 1993

Dear Senator Braun:

re PR Docket 92-235 FCC Land Mobile Service

I am retired and enjoy many hours of building and flying scale model air planes. It is also an expensive hobby. Air plane kits costs \$100. up to \$200. Engines cost \$100. to \$300. according to size. The radio transmitter and recievers cost \$200. to \$600. according to compexity. Then the tools and materials necessary to build and repair them could reach \$150. easily. The fees for belonging to a National and local associations for the necessary liability insurance and help is \$70. The total for one airplane runs about \$800. Now multiply \$800. times the number of airplanes each modeler has or will build and this figure comes to \$4000. as an average per model airplane flyer. This is good for the economy. This has been an international hobby for the last 40 years.

Model airplane flying is also a spectator sport as evidenced by the crowds that stop by or come to the flying field in the public Forest Perserves to watch for hours. These people and the flyers will be put in jeopordy if the PR 92-235 is enacted. We take many precautions and set up rules that all flyers must follow to keep this sport as safe as possible by preventing radio frequency cross control by the modelers on the flying field. This PR 92-235 will place mobile frequencies so close to our flying frequencies that allowable tolerances can cause cross control problems.

An airplane out of control can do damage to property or hurt someone seriously. I do not think it wise for the FCC to assign these new frequencies so close to the  $72-76\,$  MHz which were assigned by the FCC for model control as it compromises safety.

Please help us modellers to safely persue our hobby.

Sincerely,

John Biordano

Jan. 31, 1993

The Honorable Carol Moseley Braun United States Senate Washington, D.C. 20510

	Dear Senator Braun:
	I have been made aware of the Federal Communication Commission new rules on frequency allocations. The FCC
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February 1993

The Honorable Carol Broun

Dear Senator:

I have been interested in aviation for as long as I can remember. I am very active in a local club whose members enjoy constructing and operating radio-controlled model airplanes. I personally own several radios, many R /C models and have a workshop full of other products necessary to operating my models.

I am very concerned about the proposed rule that is currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted the new rule will greatly reduce the usability of frequencies currently assigned for R/C model use and increase the risk of accidents and attendant liability.

Our radio-controlled frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio-control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

The Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of the rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band (for R/C aircraft) and 10 of the 30 frequencies on the 75 MHz band (for R/C cars and boats) now used by hobbyists. In fact, more channels will likely be affected.

When we operate our R/C models, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the

92 ARCH Road Harmon IL 61042 March 15, 1993 FCC mod. Airplame Bonn

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Carol Mosley Braun United States Senate Washington, D.C. 20510

Dear Carol Mosley Braun:

I am 44 years old and have enjoyed the sport of building and flying radio control model airplanes for many years, my son also flies models. Together we belong to a club of over 40 members. Just in our local area (50 mile radius) there are four clubs consisting of over 200 members. These are members of clubs only, these are probably another 100 flyers in this area not belonging to clubs, all of these people would be effected by fcc action described below.

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The Honorable Carol Moseley-Braun United States Senate Washington, D.C. 20510

Dear Senator Moseley-Braun,

I am an active member of a local club whose members enjoy building and flying radio controlled model airplanes. Our club participates in a number of community events including those organized by the Boy Scouts. Aside from being enjoyable, we believe RC modelling is educational, helps develop creativity, builds self-confidence, and builds skills which can be used in other endeavors.

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When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that many model airplanes have wing spans up to 10 feet and weigh as much as 30 or 40 pounds, others can reach speeds in excess of 200 miles per hour. The models themselves are expensive to build; but more to the point, they are capable of causing property damage, serious injury, or even death if

FEB 25 1993

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FEB 20 1993

I am very active in the Watts Wake Scale Model Boat Club. Our members enjoy building and operating radio controlled model boats. I am very concerned about the proposed rules under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model boats.

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When we operate our model boats under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that many model boats have lengths up to 9 feet and weigh as much as 60 pounds. The models themselves are expensive to build, but more to the point, they are capable of causing property damage or serious injury if radio interference causes the operator to lose control of the boat. We often operate our boats at organized events and contests while many people observe their operation. We need the use of our full compliment of radio frequencies in order to assure a safe boating environment.

I urge you to consider this. Keep 10 kHz spacing between all frequencies on 75 MHz and 72 MHz bands available for safe use by radio control enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and equipment of people nationwide. I do not think it is wise of the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers.

Please help me to continue the safe enjoyment of my hobby by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely,

Gerry Rylands



6196/enview Aux Aurora, 12 60505 2/22/93

FEB 25 1993

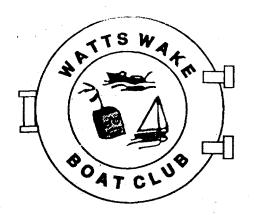
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FEB 25 1993

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FEB 25 1993

Sea Senatar Braun

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2/8/93

Jear Senator Carol modey Braun,

It has come to my attention that the FCC has proposed to allocate radio frequencies of 72MHz to 76MHz to new technology ie: cellular phones, personal paging and radio data services. I am all for the expansion and production of all this new technology, but these frequencies are already in use. 72Mhz is reserved for radio controlled planes and 75MHz-76Mhz is reserved for surface use (radio controlled cars and boats). I personally own two transmitters that use the 75MHz band, and I have invested about \$150 into them. I am sure that there are hundreds of thousands of radios in the hands of the public (possibly millions) most of which cost much more than the combined cost of my two. If the use of the frequencies used for these R/C models is incorporated into a new market the change is going to be anything but smooth. Many owners will simply refuse to change frequencies. This will result in 1: disruption in the airwaves (static over cellular phones) or worse 2: radio "gliches" for R/C vehicles. A "glich" is the loss of control of a radio controlled vehicle due to radio interference. No one wants to see a 90mph R/C plane glich for any extended period of time. Even on the surface the average speed of a 1/10 scale car is 30mph and the larger 1/8 scale gas cars can easily go 60+mph. Now I wouldn't call it safe having these vehicles moving this fast with no control! We understand this and regulate the airwaves at races making sure that no two frequencies, or even frequencies that are close, are on at the same time. Notice too that the frequencies are separated between surface and air use for safety reasons. If PR Docket 92-235 passes then we will be having races with two possibly only one contestant. Not much of a race in my mind. The R/C hobby is becoming increasingly popular and this would greatly hurt it. I oppose the regulations contained in PR Docket 92-235 and I hope you take my concerns into consideration.

Thank you for giving your attention to these concerns.

Sincerely,

Muhal Sellion